PE TITLE: Medium Launch Vehicles (Space)

RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2 Exhibit)

February 1999

BUDGET ACTIVITY PE NUM

PE NUMBER AND TITLE

PROJECT

7 - Operational System Development

0305119F Medium Launch Vehicles (Space)

624A

COST (\$ In Thousands)	FY 1998 Actual	FY 1999 Estimate	FY 2000 Estimate	FY 2001 Estimate	FY 2002 Estimate	FY 2003 Estimate	FY 2004 Estimate	FY 2005 Estimate	Cost to Complete	Total Cost
624A Medium Launch Vehicle	2,002	7,338	1,179	1,963	1,470	979	0	0	0	408,550
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0	0	0

(U) A. Mission Description

National Security requirements dictate a continuing, highly reliable means of placing critical Department of Defense (DoD) satellites into required orbits. Assured access to space, directed by the President in the National Security Launch Strategy, will be accomplished through the use of a robust mix of Expendable Launch Vehicles (ELVs). The Medium Launch Vehicle (MLV) program provides sustainment, procurement and launch of DoD ELVs, including Atlas II and Delta II at Cape Canaveral AS, FL, and at Vandenberg AFB, CA. MLV launches Defense Satellite Communication System (DSCS) and Global Positioning System (GPS) satellites. The RDT&E budget for MLV primarily consists of engineering support for system performance upgrades to both the vehicles and the launch facilities, new payload integration, sustaining engineering, and post-flight assessment to maintain the high reliability of the launch vehicles.

(U) FY 1998: (\$ in thousands)

- (U) \$ 944 Delta II range required facilities upgrade
- (U) \$ 0 Delta II systems integration
- (U) \$1,058 Sustaining engineering and mission support for MLV launch facilities, infrastructure, and launch operations for launch complexes 3, 17, and 36
- (U) \$ 2,002 Total

(U) <u>FY 1999</u>: (\$ in thoussands)

- (U) \$ 500 Delta II range required facilities upgrade
- (U) \$ 700 Delta II systems integration
- (U) \$ 1,922 Sustaining engineering and mission support for MLV launch facilities, infrastructure, and launch operations for launch complexes 3, 17, and 36
- (U) \$3,990 Funds reprogrammed to higher Air Force priorities
- (U) \$ 226 Identified as a source for SBIR
- (U) \$ 7,338 Total

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DATE RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2 Exhibit) February 1999 BUDGET ACTIVITY PE NUMBER AND TITLE **PROJECT** 7 - Operational System Development 0305119F Medium Launch Vehicles (Space) 624A (U) <u>FY 2000</u>: (\$ in thousands) Delta II range required facilities upgrade (U) \$ 500 Delta II systems integration (U) \$ 350 Sustaining engineering and mission support for MLV launch facilities, infrastructure, and launch operations for launch complexes 3, 17, and 36 (U) \$ 329 (U) \$ 1.179 Total (U) FY 2001: (\$ in thousands) (U) \$ 500 Delta II range required facilities upgrade Delta II systems integration (U) \$ 300 Sustaining engineering and mission support for MLV launch facilities, infrastructure, and launch operations for launch complexes 3, 17, and 36 (U) \$ 1.163 (U) \$ 1,963 Total (U) B. Budget Activity Justification: This program is in Budget Activity 7, Operational Systems Development, because the Medium Launch Vehicles program is in full production and fully operational. (U) C. Program Change Summary (\$ in Thousands) FY 1998 FY 1999 FY 2000 FY 2001 Total (U) Previous President's Budget (FY1999 PB) 5,130 7,375 8,009 7,992 430,139 (U) Appropriated Value 5,719 7,375 (U) Adjustments to Appropriated Value a. Congressional Gen Reductions -478 -37 b. SBIR -118 c. Omnibus or Other Above Threshold Reprogram -35 d. Below Threshold Reprogramming -3,086 (U) Adjustments to Budget Years Since FY 1999 PB -6,029 -6,830 (U) Current Budget Submit/FY2000 President's Budget 7,338 1.179 1.963 2,002 408,550 (U) Significant Program Changes: Funding: \$3,086 of FY98 funds were reprogrammed to finance higher priority Air Force programs. Funds were available due to

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requirement reductions for integration and launch facility/infrastructure upgrades and improvements. \$226 of FY99 is identified as a source for SBIR. FY00 and 01

adjustments are due to reduced requirements for sustaining engineering.

Project 624A

RDT&E BUD	GET ITEM JUSTI	FICATION	SHEET	(R-2 E	chibit)		DATE	February	1999
BUDGET ACTIVITY 7 - Operational System Deve	lopment		PE NUMBER AI 0305119F		m Launcl	n Vehicle:	s (Space))	PROJECT 624A
(U) D. Other Program Funding Summ (U) Missile Procurement, Air Force (PI (BA45, P-25/26) Related RDT&E: None (U) E. Acquisition Strategy:	<u>FY 1998</u> <u>FY</u>	1999 FY 200 5,085 64,83		<u>FY 2002</u> 41,963	<u>FY 2003</u> 10,517	FY 2004 6,812	FY 2005 0	To Compl 0	<u>Total Cost</u> 2,597,534
The MLV program is in final production programs are complete. the Lockheed Martin Atlas launch be satellites. The final option on the Bottransitioning to EELV beginning w	The procurement dollars for passe operations contract. The peing production contract for the production contract for the production contract for the procurement dollars f	or the Air Force he Delta II prog	Atlas II prog ram primarily	ram finance consists of	es the launch f launching 1	n services for eplenishmen	the two rent Global Pos	naining DSC sitioning Sys	S missions on tem (GPS)
(U) Delta/GPS Launches (U) Delta/STP Launch (U) Atlas /DSCS Launches *=complete X=planned	FY 1998 1 2 3 *	4 1	FY 1999 2 3 X	4 X X	1 2 X X		4 1 X X		1/3 4 X X
Project 624A		Page	3 of 5 Pages			Ex	hibit R-2 (F	PE 0305119	F)

RDT&E PROGRAM ELEMENT/PROJECT COST BREAKDOWN (R-3)										February 1999		
7 - Operational System Development						ND TITLE F Mediu	<u> </u>	(Space)				
(U) A. Project Cos	st Breakdown (\$ in T	<u>'housands)</u>		EV 1009	EV 1	000	EV 2000	FY 200	1			
				FY 1998	<u>FY 1</u>		FY 2000		_			
(U) Delta II Range				944		500	500	500				
(U) Delta II System		_		0		700	350	300				
	ineering and Mission	Support		1,058		922	329	1,163	3			
(U) Identified as a s						226						
(U) Pending below(U) Total	threshold reprogrami	ning		2,002	,	990 338	1,179	1,179 1,963				
(U) Total				2,002	7,	330	1,179	1,90.)			
Contractor or Government Performing <u>Activity</u>	Contract Method/Type or Funding <u>Vehicle</u>	Award or Obligation <u>Date</u>	Performing Activity EAC	Project Office <u>EAC</u>	Total Prior to FY 1998	Budget FY 1998	Budget FY 1999	Budget FY 2000	Budget FY 2001	Budget to Complete	Total <u>Program</u>	
Product Development Lockheed Martin	SS/FFP	Jun 88	N/A N/A	N/A	70,927	0	0	0	0	0	70,927	
Boeing Boeing	SS/FFP C/FFP	Sep 87 Apr 93	N/A N/A	N/A N/A	205,270 23,533	0 1,535	0 2,500	0 1,000	0 1,500	0 2,100	205,270 32,168	
GSAC	Various	Various	N/A N/A	N/A N/A	3,321	1,333	2,300	1,000	1,500	2,100	3,321	
Austere	Various	Various	14/11	1 1/ 1 1	10,484	0		0	0	0	10,484	
Improvements	, 4110 410	V 411 5 4 5			20,101	· ·	Ü	v	Ū	v	10,101	
Project 624A			Page 4 of 5 Pages					Exh	nibit R-3 (F	PE 0305119	F)	

RDT	COST BREAKDOWN (R-3)					DATE February 1999					
BUDGET ACTIVITY 7 - Operational	System Develo	pment			PE NUMBER A 0305119F		n Launch	Vehicles	s (Space)	PROJECT 624A
Contractor or Government Performing Activity	Contract Method/Type or Funding Vehicle	Award or Obligation <u>Date</u>	Performing Activity EAC	Project Office <u>EAC</u>	Total Prior to FY 1998	Budget FY 1998	Budget FY 1999	Budget FY 2000	Budget FY 2001	Budget to Complete	Total <u>Program</u>
Support and Manage	ment Organizations										
Mission Support	SS/FPI	FY94	N/A	N/A	15,736	467	622	179	463	349	17,816
Various SMC	Various	FY94	N/A	N/A	53,218	0	0	0	0	0	53,218
Other Ktr Sup	SS/FFP	FY94	N/A	N/A	2,254	0	0	0	0	0	2,254
Vandenberg Sup	Various	Various	N/A	N/A	3,270	0	0	0	0	0	3,270
Environment/	Various	Various	N/A	N/A	5,606	0	0	0	0	0	5,606
Safety Source for SBIR Pending BTR							226 3,990				226 3,990
Test and Evaluation Not Applicable	Organizations										
Government Furnis	hed Property: Not A	applicable									
Subtotal Product Dev	velopment				313,535	1,535	2,500	1,000	1,500	2,100	322,170
Subtotal Support and	Management				80,084	467	4,838	179	463	349	86,380
Subtotal Test and Ev	aluation				0	0	0	0	0	0	0
Total Project					393,619	2,002	7,338	1,179	1,963	2,449	408,550
Project 624A				Pac	ge 5 of 5 Pages			Fv	hihit R-3 (F	PE 0305119I	=)

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